

AMENDMENTS TO THE ABSTRACT

Please amend the abstract as follows.

A computer system ~~reconfigurable cache memory~~ includes a cache programmable ~~memory-unit~~,^{[[;]]} a functional unit in communication with the cache programmable ~~memory-unit~~, and a reconfiguration module. The functional unit executes applications using the cache programmable ~~memory-unit~~. The reconfiguration module is for determining an optimal configuration of cache memory for a particular application and programming the cache programmable ~~memory-unit~~ to the optimal configuration. A method of reconfiguring cache memory includes determining an optimal configuration of cache memory for a particular application executed by a functional unit using a cache programmable ~~memory-unit~~ and programming the cache programmable ~~memory-unit~~ to the optimal configuration.